

Application No. 10/686,676
Attorney Docket No. 1030/0106PUS1
Response to Final Office Action of 4/19/06

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A chipping apparatus for chipping material comprising:
first and second chipping tools arranged in a housing, at least one of the first or second chipping tools ~~tool~~ being planiform and at least one of the first or second chipping tool being arranged on a carrier element along a drum-shaped, disk-shaped, or ring-shaped chipping path moving relative to one another,
wherein at least one of the first or second chipping tools ~~tool~~ ~~rotates~~ rotate about an axis of rotation,
wherein a thickness of the first or second chipping tool is divided into a core area, which faces the carrier element, and a utilization area positioned adjacent the core area, and
wherein the first or second chipping tools have at least one recess formed substantially perpendicular to a division line, which extends across the core area and ends in a division line provided between the core area and the utilization area.
2. (original) The chipping apparatus according to claim 1, wherein the recess is pointed at its lowest point.
3. (original) The chipping apparatus according to claim 1, wherein the recess has parallel boundary walls and a bottom of the recess is concave or cone shaped.

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4. (original) The chipping apparatus according to claim 1, wherein the recess is a bore hole.
5. (original) The chipping apparatus according to claim 1, wherein the recess has an internal screw thread and wherein the first and/or second chipping tools are fastened to the carrier elements by screws, whereby the screws extend from the carrier element to the recess.
6. (previously presented) The chipping apparatus according to claim 1, wherein a radial distance of the recess to an outer edge of the chipping tools is approximately 5% of a diameter of the chipping tools.
7. (previously presented) The chipping apparatus according to claim 1, wherein a maximal angular distance between the recess and another recess in a plane that is substantially perpendicular to the axis of rotation is 120°.
8. (original) The chipping apparatus according to claim 1, wherein the carrier elements of the first or second chipping tools are formed by the housing.
9. (original) The chipping apparatus according to claim 1, wherein the carrier elements of the first or second chipping tools are formed by a disk, a ring wheel, or a drum.

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10. (original) A disk-shaped chipping tool for use in a chipping apparatus, the chipping tool being divided by a division line into a utilization area and a core area, wherein the core area has at least one recess extending substantially perpendicular to the division line of the chipping tool, the recess extending towards the utilization area and ends at the division line between the core area and the utilization area.
11. (original) The disk-shaped chipping tool according to claim 10, wherein the recess is pointed at its lowest point.
12. (original) The disk-shaped chipping tool according to claim 10, wherein the recess has parallel boundary walls and the bottom of the recess is preferably concave or cone shaped.
13. (original) The disk-shaped chipping tool according to claim 10, wherein the recess is a bore hole.
14. (original) The disk-shaped chipping tool according to claim 13, wherein the recess has an internal screw thread to accommodate a fastening screw.
15. (original) A chipping apparatus comprising:
a carrier element arranged within a housing of the chipping apparatus; and
at least one chipping tool for chipping material being fastened onto the carrier

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element,

wherein the at least one chipping tool is divided by a border into a utilization area and a core area along a length of the at least one chipping tool,

wherein the utilization area includes ripples formed therein for chipping the material, and

wherein the core area has at least one bore formed therein, the at least one bore extends through the core area and terminates at the utilization area, such that a visible indication of the bore from the utilization area determines a state of attrition of the utilization area.

16. (original) The chipping apparatus according to claim 15, wherein the bore is cone shaped in an area approximate to the border.

17. (original) The chipping apparatus according to claim 15, wherein the bore facilitates the fastening of the at least one chipping tool onto the carrier element.

18. (original) The chipping apparatus according to claim 17, wherein the bore includes threads for receiving a screw for fastening the at least one chipping tool onto the carrier element.

19. (original) The chipping apparatus according to claim 15, wherein the bore is displaced substantially perpendicular to the border.

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20. (original) The chipping apparatus according to claim 15, wherein the bore extends through the core area substantially perpendicular with respect to a face of the core area.
21. (previously presented) The chipping apparatus according to claim 1, wherein the first or second chipping tools have a plurality of recesses, the plurality of recesses each having a depth that is variable.
22. (previously presented) The chipping apparatus according to claim 1, wherein a depth of the at least one recess varies based on an attrition state.
23. (previously presented) The chipping tool according to claim 10, wherein the chipping tool has a plurality of recesses, the plurality of recesses each having a depth that is variable.
24. (previously presented) The chipping tool according to claim 10, wherein a depth of the at least one recess varies based on an attrition state.
25. Cancelled
26. Cancelled
27. Cancelled
28. Cancelled